YAMAHA POWERED MIXER EMX SERIES

EMX62M/EMX66M/EMX68S/EMX88S/EMX5000-12/EMX5000-20

Why a Powered Mixer?

For the busy performing musician or club operator, a high-quality powered mixer with the right features and professional performance is the obvious choice for several reasons …

All-in-one Integration

In one convenient unit you have a mixer to combine and balance your microphone and instrument sources, effects to add ambience to your sound, and power amplification to drive house speakers and in some models even monitor speakers as well. Why bother with the fuss and frustration of separate components when you can have it all in one?

Simple Setup and Operation

Setting up a system with separate mixer, effect units, and power amplifier means lots of cables and the need for careful level matching between components if you want optimum performance. All of this takes time and adds up to extra work — not to mention the potential for misplaced or faulty cables and a plethora of other "technical problems". When you're rushing to set up for a gig, you want things to go as quickly and as smoothly as possible.

Unmatched Portability

Pick it up, carry it to where you're going to use it, and put it down. Compare that to transporting, connecting, and adjusting at least three separate units. There's simply no contest: a well-designed, smoothly-integrated powered mixer is smaller, lighter, and actually more durable than a comparable component system.

Why a YAMAHA Powered Mixer?

Now that we've determined that you need a powered mixer, why should you choose a Yamaha? Start with a solid reputation for professional quality based on more than 30 years experience in the field. And don't forget that Yamaha also makes some of the world's finest acoustic pianos, stringed instruments, wind instruments, drums, and electronic instruments as well as industry-standard sound reinforcement gear. In short, the Yamaha name is synonymous with leading-edge technology that also embodies a unique sensitivity to the artistic needs of the musicians and performers who use it. But since we're talking about powered mixers, here are a few more specific reasons …

Superior Sonic Quality

In addition to no-compromise circuit design and parts selection, here's an area in which Yamaha's musical sensitivity really makes a difference. The technology is important, but the real key to Yamaha sonic quality is in listening. Our engineers, sound specialists and instrument designers listen carefully to each product at every possible design stage, making changes and refinements that may not appear in the specifications, but that make an audible difference to the final sound.

A Power Profile for Every Application

The Yamaha EMX-series Powered Mixers deliver plenty of professional-quality power in a range of configurations designed to suit just about any application. From the 200-watt mono model right up to the 500-watt-per-channel multi-mode stereo model there's an EMX Powered Mixer that offers the perfect balance of power and features for your solo act, band, or venue.

Serious Reliability and Safety

We're not exaggerating when we say that Yamaha quality control is among the strictest in the business. In addition to ISO-standard manufacturing processes, we carry out an almost unbelievable battery of reliability and safety tests to ensure that every product surpasses all of the world's most stringent safety standards: UL, CSA, SEMKO, CE … you name it, we've passed it. To give you an idea of how far we go to ensure quality, here's a short list of some of the conditions every Yamaha product must meet.

- **Power Supply Stability**
  In addition to flawless overall operation in the face of power line fluctuations as severe as ±15%, the power supply must produce no hum or noise.
- **Environmental Temperature & Humidity Extremes**
  All electronic and mechanical functions must operate properly in ambient temperatures from –20°C up to +37.5°C (±2°C), and in humidity as high as 90% (±5%).
- **Static Electricity**
  Static electricity discharges as high as 10,000 volts must not cause functional errors, and discharges up to 20,000 volts must not result in breakdown.
- **Durability**
  All products are tested for normal operation for a total of 200 continuous hours (when power-transistors are involved, the heat sink temperatures is maintained at +50°C).

Feature Highlights

The Mixer

The EMX Powered mixers may be designed for convenient, easy operation, but that doesn't mean that basic quality and performance are compromised in any way. In fact, they inherit technology from the acclaimed Yamaha PM3500 and PM4000 sound reinforcement mixing consoles — staples in the professional reinforcement field worldwide. Yamaha expertise and technological innovation is even at work in the details that deliver subtle but vital improvements in the overall sound: superior RF (Radio Frequency) rejection and exceptionally clean, transparent head amplifiers are just two examples.

The Power Amplifier

High power alone is simply not enough. At any power level the amplifier's output must remain an accurate, uncolored image of the original input signal. That demands much more technological finesse than simply building a bigger amp. In addition to totally clean, natural power, the EMX power amplifiers feature Yamaha's unique EEEngine technology for extremely efficient operation with significantly reduced AC power consumption and heat generation — factors that contribute to the lineup's light weight and compact dimensions as well.

Digital Effects

Yamaha is no newcomer to the field of digital signal processing. Our professional outboard effect units and the effects built into our renowned digital mixing consoles set the standards for the industry. The EMX-series powered mixers benefit from the same cutting-edge technology. The EMX68S, EMX88S, and EMX5000 models, in particular, feature SPX digital effect technology with 20-bit AD/DA conversion and 32-bit internal processing . The EMX effects are more than mere "extras". They are professional-quality effects that can contribute to your sound in many important ways.

Rack Mounting and Efficient Forced-air Cooling

With the exception of the largest model in the lineup — the 20-channel EMX5000-20 — all models can be rack-mounted using an optional rack-mounting kit* for optimum integration with any system or installation. in addition to the mixers' physical configuration, this is made possible by a highly efficient fan cooling system that ensures reliable, stable operation under just about any environmental conditions.

** RK-88 7U Rack Mount Kit for the EMX62M, EMX66M, EMX68S, and EMX88S.*
RK-124 13U Rack Mount Kit for the EMX5000-12.

Stand-by Mode

Another feature that illustrates Yamaha's sensitivity to the needs of the working musician is the Stand-by switch included on all stereo models: when you're done with a set simply engage the stand-by mode to mute all mono channels while leaving the 2-track inputs (and stereo channels on the console types) active for BGM playback while you're off stage.

Power Amp Mode Selector

All models except for the single-amp EMX62M feature power amp mode selector switches so you can configure the amp channels to suit a range of applications. The EMX5000 models, for example, offer four choices: Main (L) + main (R) to drive stereo house speakers, Mono + AUX to drive a mono house speaker system plus a mono monitor system, AUX1 + AUX2 to drive a monitor system while an outboard power amplifier drives the house, and Mono Bridge to deliver a whopping 1000 watts to a subwoofer. The LPF filter provided on the EMX5000-12/20 outputs is also an ideal feature for subwoofer drive.

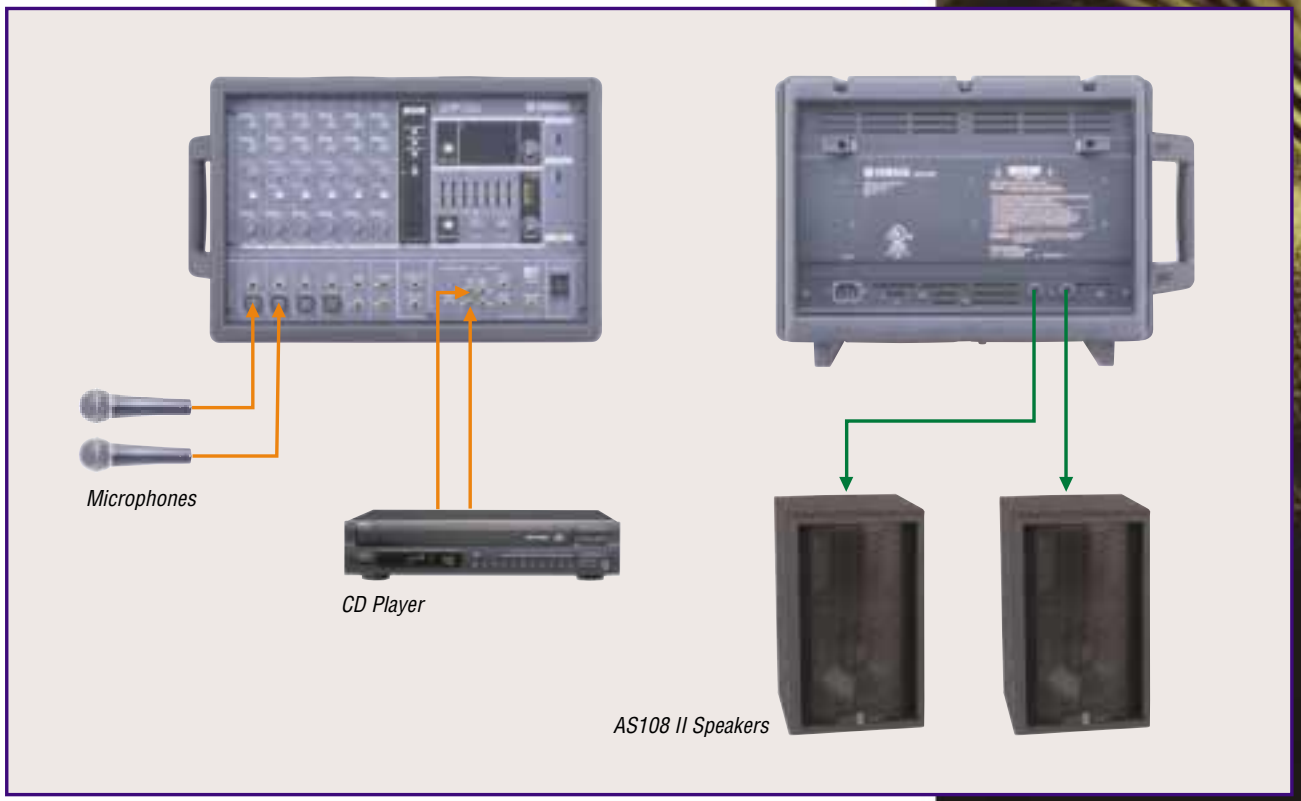
Yamaha Speaker Processing

Yamaha Club-series speakers are fine performers in their own right, but with Yamaha Speaker Processing you get extra-smooth highs and enhanced low-frequency output.

EMX 62M
POWERED MIXER

Solo performers and public speakers who need a really clean, simple system that gets the job done without getting in the way will appreciate the EMX 62M. With six flexible input channels, high-quality effects, 7-band graphic EQ, and a solid 200-watt mono power section, the EMX62M offers all the creative control and power you need for small shows and events.

TYPICAL APPLICATION



Rear Panel

1. Balanced Low-Z inputs with switchable phantom power ensure optimum performance with all high-quality microphones.
2. Hi-Z inputs for direct connection of line sources or high-output instruments.
3. Pad switch allows input level matching with high-level sources.
4. The Level controls individually adjust the level of each channel.
5. Effect send delivers the channel signal to the mixer's superb internal effects, or an outboard effect processor.
6. Monitor send adjusts the level of the channel signal sent to the monitor section.
7. 2-band channel equalizer offers independent response-shaping control for each channel.
8. 3 high-quality digital reverb effects add ambience and depth to your sound.
9. MAIN section Effect Return adjusts the amount of effect signal mixed input the main program.
10. MONITOR section Effect Return lets the performers hear the effects, too.
11. Aux In control mixes the signal received via the AUX IN jack into the main program.
12. 7-band graphic equalizer provides flexible sound-tailoring and feedback control for the main output.
13. 2TR IN control adjusts the amount of signal received via the 2TR IN jacks mixed into the main program output.
14. Phantom power switch applies phantom power to the Low-Z inputs for phantom-powered condenser microphones.
15. MONITOR section Master control adjusts the volume of the monitor sound.
16. Yamaha Speaker processing switch for smoother high frequencies and enhanced low-end output from Yamaha speakers.
17. MAIN section Master control — with 5-segment level meter — adjusts the overall level of the main house sound.
18. Monitor output jack delivers the line-level monitor output for connection to an external sound system.
19. Phones output for convenient monitoring via headphones.
20. Main output can be used to drive an external power amplifier or sound system from the main program.
21. Rec Out jacks deliver the main program signal to an external recorder.
22. 2TR IN jacks can be used to mix the output from a tape deck or other stereo source into the main outputs.
23. Aux In jack allows the signal from an auxiliary source or sub-mixer to be mixed into the main program.
24. Foot Switch jack accepts an optional FC5 foot switch to turn the effects on or off.
25. Effect Out jack delivers the signal from the channel Effect send controls to an external effect processor.
26. Super Hi-Z inputs optimized for direct input of acoustic electric guitars and electric guitars or basses.
27. Line inputs allow connection of line-level sources.
28. Speaker 1 and 2 outputs allow connection of two 8-ohm speakers or a single 4-ohm speaker.

EMX66M
POWERED MIXER

If you don't need more than six channels, but you do need plenty of power and monitoring capability, take a good look at the EMX66M. This little powerhouse features two mono 300-watt power amplifiers that can both drive house speakers, or one can drive the house while the other drives a monitor system. The power amps can even be bridged for a spectacular 600 watts output.

TYPICAL APPLICATION

Rear Panel

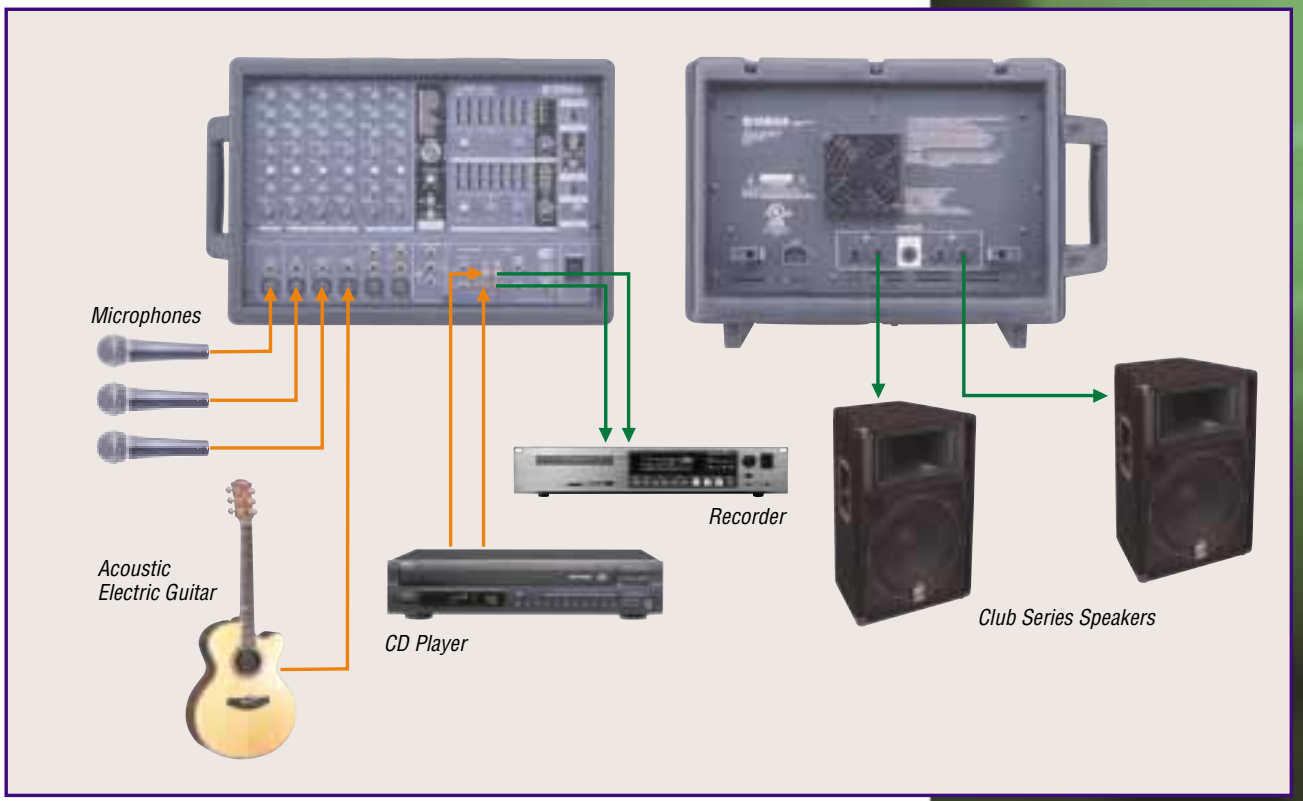
1. Balanced Low-Z inputs with switchable phantom power ensure optimum performance with all high-quality microphones.
2. Hi-Z inputs for direct connection of line sources or high-output instruments.
3. Pad switch allows input level matching with high-level sources.
4. The Level controls individually adjust the level of each channel.
5. Effect send delivers the channel signal to the mixer's superb internal effects, or an outboard effect processor.
6. Monitor send adjusts the level of the channel signal sent to the monitor section.
7. 3-band channel equalizer offers smooth , independent response-shaping control for each channel.
8. A selection of 8 top-quality digital effects add character and warmth to your sound.
9. MAIN section Effect return adjusts the amount of effect signal mixed input the main program.
10. MONITOR section Effect Return lets the performers hear the effects, too.
11. MONITOR section 7-band graphic equalizer makes it easy to set up optimum monitor sound for the performers.
12. Aux In control mixes the signal received via the AUX IN jack into the main program.
13. 7-band graphic equalizer for the MAIN section provides flexible sound-tailoring and feedback control for the main outputs.
14. 2TR IN controls on the MAIN and MONITOR sections individually adjust the amount of signal received via the 2TR IN jacks mixed into the main program and monitor outputs.
15. Phantom power switch applies phantom power to the Low-Z inputs for phantom-powered condenser microphones.
16. MONITOR section Master control adjusts the volume of the monitor sound. 5-segment level indicator included.
17. Limiter indicators tell you when the internal limiter circuitry has been activated due to power amplifier overload.
18. Power Amp mode selector allows two-channel power amplifier to be quickly configured for Main + Main, Main + Monitor, or Bridged operation.
19. Yamaha Speaker processing switch for smoother high frequencies and enhanced low-end output from Yamaha speakers.
20. MAIN section Master control — with 5-segment level meter — adjusts the overall level of the main house sound.
21. Monitor output jack delivers the line-level monitor output for connection to an external sound system.
22. Main output can be used to drive an external power amplifier or sound system from the main program.
23. Rec Out jacks deliver the main program signal to an external recorder.
24. 2TR IN jacks can be used to mix the output from a tape deck or other stereo source into the main and monitor outputs.
25. Aux In jack allow the signal from an auxiliary source or sub-mixer to be mixed into the main program.
26. Foot Switch jack accepts an optional FC5 foot switch to turn the effects on or off.
27. Effect Out jack delivers the signal from the channel Effect send controls to an external effect processor.
28. Super Hi-Z inputs optimized for direct input of acoustic electric guitars and electric guitars or basses.
29. Line inputs allow connection of line-level sources.
30. Power amp A and B outputs deliver the output from the unit's two power amplifiers to the corresponding speaker systems.
31. Bridge allows the total output from both amplifiers to be fed to a single speaker or multiple daisy-speakers.

EMX 68S

POWERED MIXER

Some shows simply demand stereo sound, and with its 400-watt per channel multi-mode stereo configuration the EMX68S can certainly deliver. This advanced model also adds a number of refined features including a selection of 16 superb effects (including tap-delay) brought to you by professional-class Yamaha SPX digital signal processing technology, and a one-touch standby mode.

TYPICAL APPLICATION

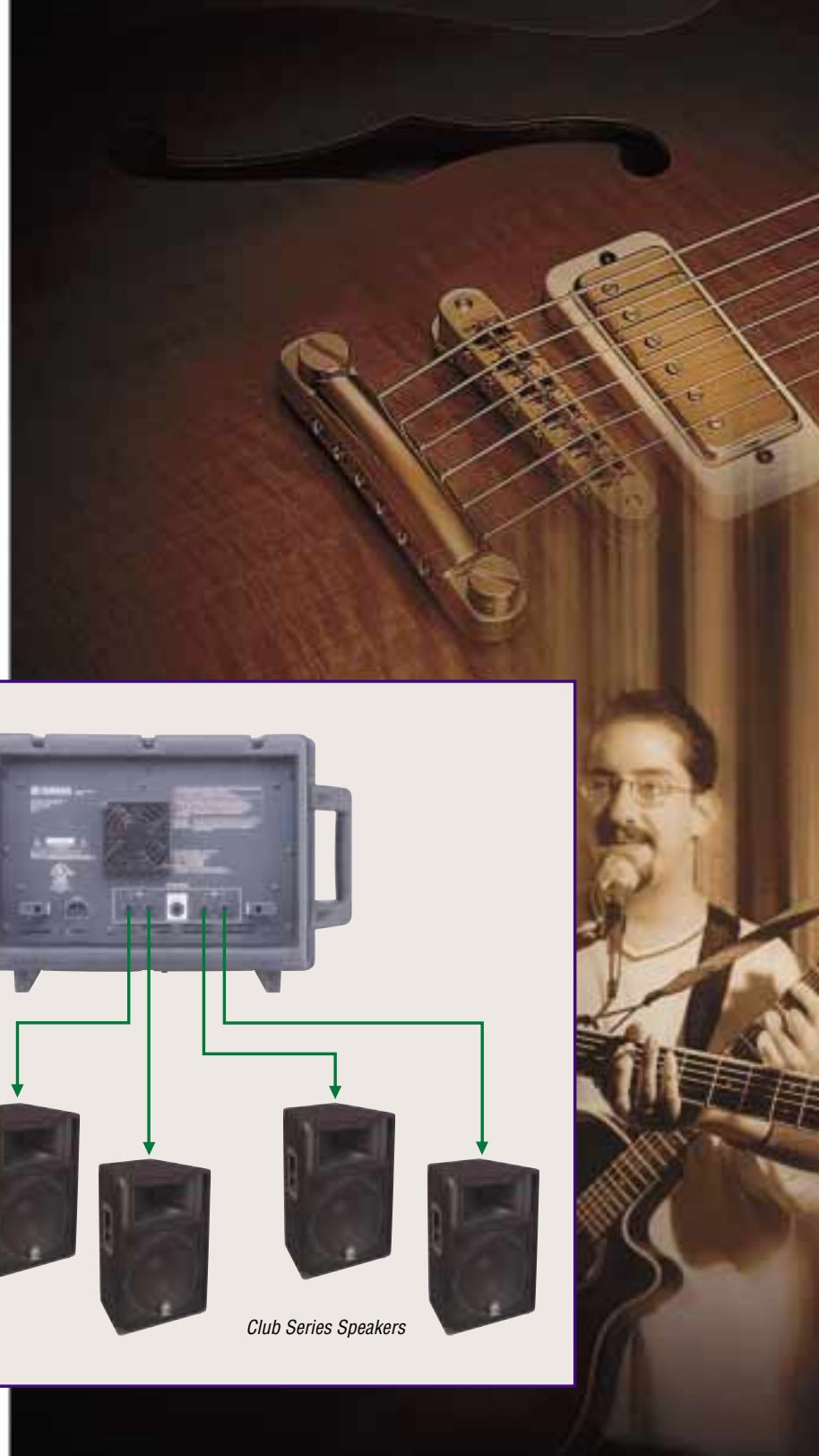


Rear Panel

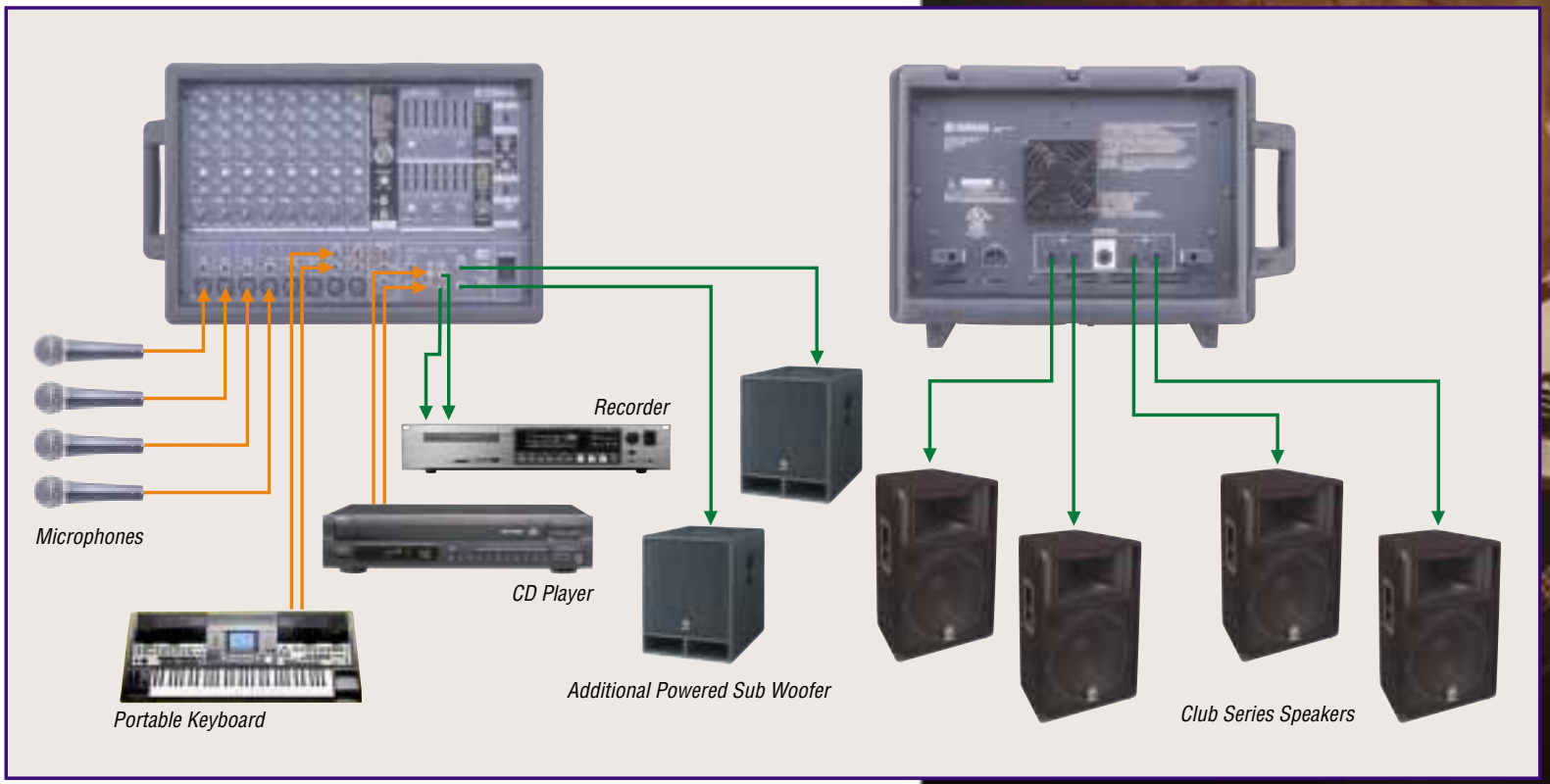
1. Balanced Low-Z inputs with switchable phantom power ensure optimum performance with all high-quality microphones.
2. Hi-Z inputs for direct connection of line sources or high-output instruments.
3. Pad switch allows input level matching with high-level sources.
4. The Level controls individually adjust the level of each channel.
5. Pan control adjusts the position of the channel signal in the stereo sound field.
6. Effect send delivers the channel signal to the mixer's superb internal effects, or an outboard effect processor.
7. Monitor send adjusts the level of the channel signal sent to the monitor section.
8. 3-band channel equalizer offers smooth, independent response-shaping control for each channel.
9. A selection of 16 professional-quality SPX digital effects, each with a main "parameter" that can be adjusted to tailor the effect to your sonic requirements. Parameter settings are memorized for each effect program. Tap-delay makes it easy to produce tempo-synchronized delays.
10. MAIN section Effect return adjusts the amount of effect signal mixed input the main program.
11. MONITOR section Effect Return lets the performers hear the effects, too.
12. MONITOR section 7-band graphic equalizer makes it easy to set up optimum monitor sound for the performers.
13. Aux In control mixes the signal received via the AUX IN jacks into the main program.
14. 7-band graphic equalizer for the MAIN section provides flexible sound-tailoring and feedback control for the main outputs.
15. 2TR IN controls on the MAIN and MONITOR sections individually adjust the amount of signal received via the 2TR IN jacks mixed into the main program and monitor outputs.
16. Phantom power switch applies phantom power to the Low-Z inputs for phantom-powered condenser microphones.
17. MONITOR section Master control adjusts the volume of the monitor sound. 5-segment level indicator included.
18. Limiter indicators tell you when the internal limiter circuitry has been activated due to power amplifier overload.
19. Power Amp mode selector allows two-channel power amplifier to be quickly configured for Main + Main, Main + Monitor, or Bridged operation.
20. Yamaha Speaker processing switch for smoother high frequencies and enhanced low-end output from Yamaha speakers.
21. Stand-by switch instantly mutes all inputs except for the Tape Input jacks.
22. MAIN section Master control — with 5-segment stereo level meters — adjusts the overall level of the main house sound.
23. Monitor output jack delivers the line-level monitor output for connection to an external sound system.
24. Main outputs can be used to drive an external power amplifier or sound system from the main program.
25. Rec Out jacks deliver the main program signal to an external recorder.
26. 2TR IN jacks can be used to mix the output from a tape deck or other stereo source into the main and monitor outputs.
27. Stereo Aux In jacks allow the signal from an auxiliary stereo source or sub-mixer to be mixed into the main program.
28. Foot Switch jacks accept optional FC5 foot switch to turn the effects on or off, and tap in the tempo for the tempo delay effect "on the fly".
29. Effect Out jack delivers the signal from the channel Effect send controls to an external effect processor.
30. Stereo line inputs let you handle any line-level stereo source — stereo keyboards, outboard stereo effects, BGM etc. — via a single channel.
31. Super Hi-Z inputs optimized for direct input of acoustic electric guitars and electric guitars or basses.
32. Bridge allows the total output from both amplifiers to be fed to a single speaker or multiple daisy-speakers.
33. Power amp A and B outputs deliver the output from the unit's two power amplifiers to the corresponding speaker systems.

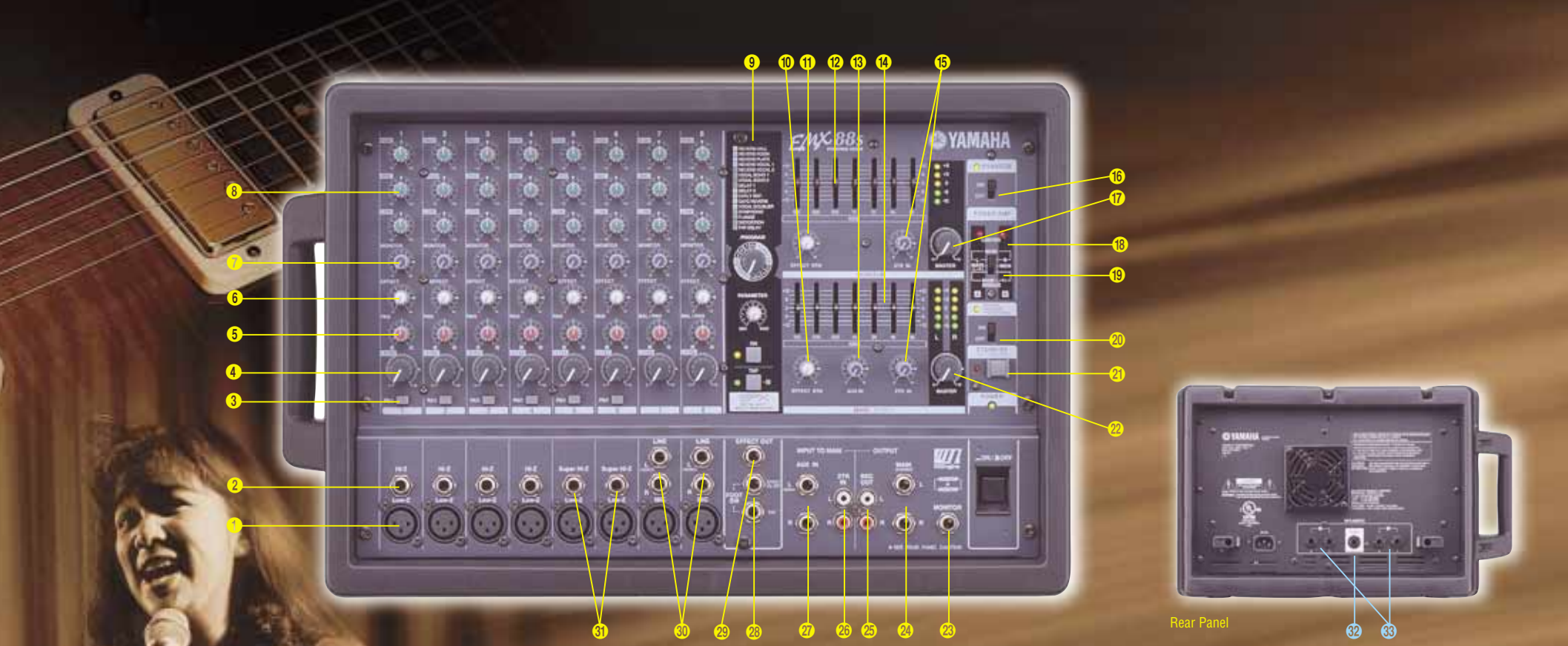
EMX88S
POWERED MIXER

Eight input channels — six mono and two stereo — give you the extra capacity you need to handle small bands and other ensembles. And a top-quality 400-watts per channel multi-mode power section ensures that every source comes through loud and clear. 3-band channel EQ, individual 7-band graphic EQ for the main and monitor outputs, professional SPX effects, Yamaha Speaker Processing, and more, add up to total sound control.



TYPICAL APPLICATION





Rear Panel

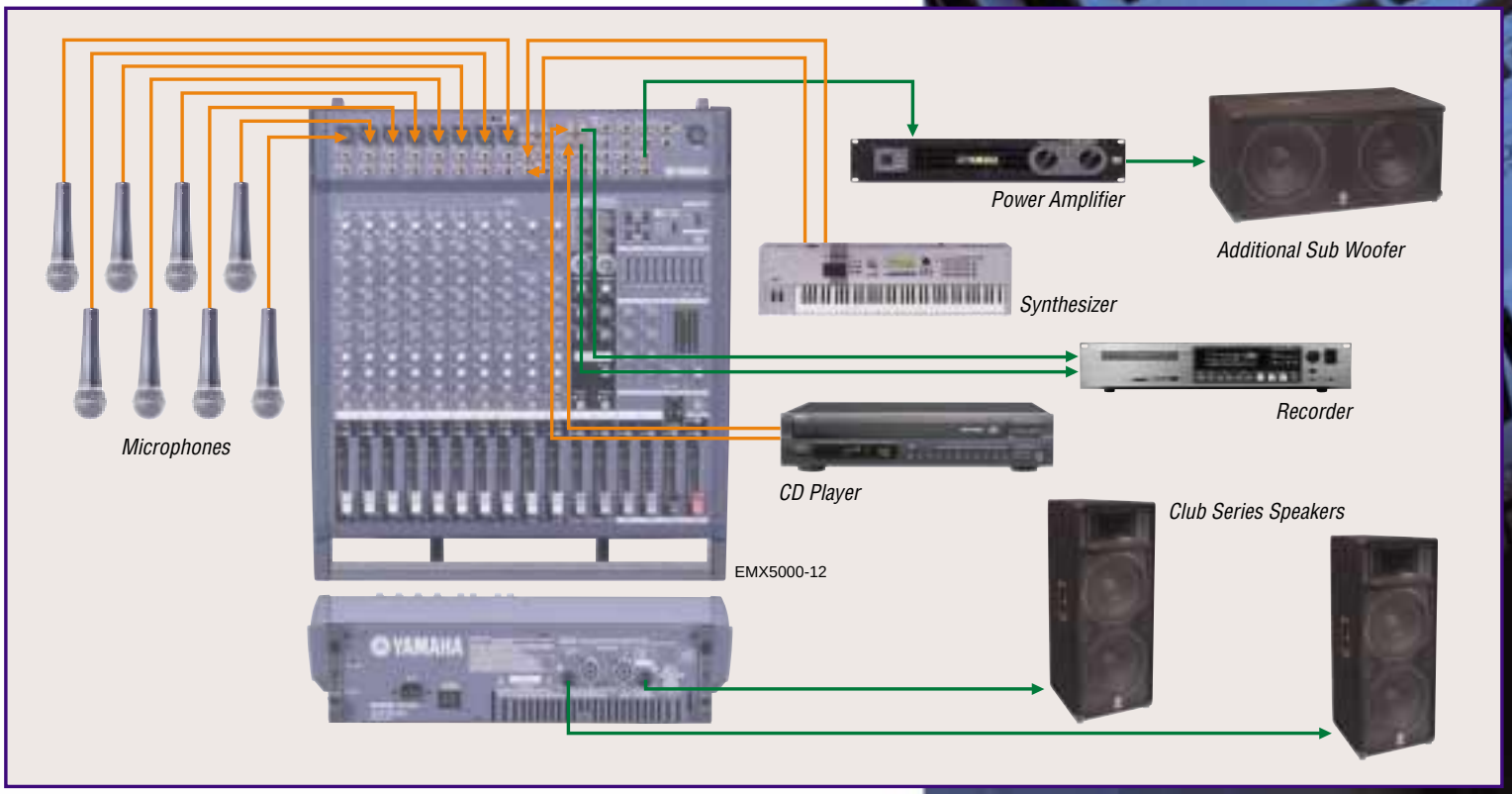
1. Balanced Low-Z inputs with switchable phantom power ensure optimum performance with all high-quality microphones.
2. Hi-Z inputs for direct connection of line sources or high-output instruments.
3. Pad switch allows input level matching with high-level sources.
4. The Level controls individually adjust the level of each channel.
5. Pan control adjusts the position of the channel signal in the stereo sound field.
6. Effect send delivers the channel signal to the mixer's superb internal effects, or an outboard effect processor.
7. Monitor send adjusts the level of the channel signal sent to the monitor section.
8. 3-band channel equalizer offers smooth , independent response-shaping control for each channel.
9. A selection of 16 professional-quality SPX digital effects, each with a main "parameter" that can be adjusted to tailor the effect to your sonic requirements. The parameter setting is memorized for each effect program. Tap-delay makes it easy to produce tempo-synchronized delays.
10. MAIN section Effect return adjusts the amount of effect signal mixed input the main program.
11. MONITOR section Effect Return lets the performers hear the effects, too.
12. MONITOR section 7-band graphic equalizer makes it easy to set up optimum monitor sound for the performers.
13. Aux In control mixes the signal received via the AUX IN jacks into the main program.
14. 7-band graphic equalizer for the MAIN section provides flexible sound-tailoring and feedback control for the main outputs.
15. 2TR controls on the MAIN and MONITOR sections individually adjust the amount of signal received via the 2TR IN jacks mixed into the main program and monitor outputs.
16. Phantom power switch applies phantom power to the Low-Z inputs for phantom-powered condenser microphones.
17. MONITOR section Master control adjusts the volume of the monitor sound. 5-segment level indicator included.
18. Limiter indicators tell you when the internal limiter circuitry has been activated due to power amplifier overload.
19. Power Amp mode selector allows two-channel power amplifier to be quickly configured for Main + Main, Main + Monitor, or Bridged operation.
20. Yamaha Speaker processing switch for smoother high frequencies and enhanced low-end output from Yamaha speakers.
21. Stand-by switch instantly mutes all inputs except for the Tape Input jacks.
22. MAIN section Master control — with 5-segment stereo level meters — adjusts the overall level of the main house sound.
23. Monitor output jack delivers the line-level monitor output for connection to an external sound system.
24. Main outputs can be used to drive an external power amplifier or sound system from the main program.
25. Rec Out jacks deliver the main program signal to an external recorder.
26. Tape In jacks can be used to mix the output from a tape deck or other stereo source into the main and monitor outputs.
27. Stereo Aux In jacks allow the signal from an auxiliary stereo source or sub-mixer to be mixed into the main program.
28. Foot Switch jacks accept optional FC5 foot switch to turn the effects on or off, and tap in the tempo for the tempo delay effect "on the fly".
29. Effect Out jack delivers the signal from the channel Effect send controls to an external effect processor.
30. Stereo line inputs let you handle any line-level stereo source — stereo keyboards, outboard stereo effects, BGM etc. — via a single channel.
31. Super Hi-Z inputs optimized for direct input of acoustic electric guitars and electric guitars or basses.
32. Bridge allows the total output from both amplifiers to be fed to a single speaker or multiple daisy-speakers.
33. Power amp A and B outputs deliver the output from the unit's two power amplifiers to the corresponding speaker systems.

EMX5000-12
POWERED MIXER

EMX5000-20
POWERED MIXER

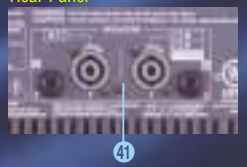
If your show demands serious input capacity and power, the 12-channel EMX5000-12 or the 20-channel EMX5000-20 will probably do the job with performance to spare. Both feature a 500-watt per channel multi-mode stereo power section that will fill even fairly large venues with outstanding sound. And although they're integrated powered mixers designed with convenience and portability in mind, both models deliver features and performance that will satisfy even the most discerning performers and sound engineers.

TYPICAL APPLICATION



1. High-quality linear faders individually adjust the level of each channel.
2. PFL (pre-fader listen) switches allow isolated monitoring of individual channels.
3. All input channels feature signal and peak indicators for visual signal monitoring.
4. Channel ON switches let you switch individual channels into or out of the mix.
5. Pan control adjusts the position of the channel signal in the stereo sound field.
6. Two Effect send controls delivers the channel signal to the mixer's dual high-performance internal effect systems, or outboard effect processing gear, as required.
7. Aux 1 and Aux 2 send controls with pre/post fader switching adjust the level of the channel signal sent to the auxiliary buses for monitoring or effects send.
8. 3-band channel equalizer with sweepable mid band offers extremely flexible, independent response-shaping control for each channel.
9. 80-Hz high pass filters for elimination of unwanted low-frequency noise and rumble.
10. Gain controls and 26-dB pad switches allow optimum level matching with just about any source.
11. Insert patch points on mono input channels for insertion of external compressors, equalizers, or other processing gear.
12. "B" inputs for direct connection of line sources or high-output instruments.
13. Balanced "A" inputs with switchable phantom power ensure optimum performance with all high-quality microphones.
14. Phantom power switch applies phantom power to the "A" inputs for phantom-powered condenser microphones.
15. Stereo line inputs let you handle any line-level stereo source — stereo keyboards, outboard stereo effects, BGM etc. — via a single channel.
16. Dual Stereo Sub inputs with level controls and PFL switches allow convenient connection to sub-mixers or other stereo sources.
17. 2TR inputs and level control can be used to mix the output from a tape deck or other stereo source into the main and monitor outputs.
18. Rec Out jacks deliver the main program signal to an external recorder.
19. Dual effect processors offer a selection of 16 professional-quality SPX digital effects each, with a main "Parameter" controls that can be adjusted to tailor the effects to your sonic requirements. The parameter setting is memorized for each effect program. Tap-delay makes it easy to produce tempo-synchronized delays.
20. Effect Send jacks deliver the signal from the channel Effect send controls to an external effect processor.
21. Aux send 1 and 2 outputs deliver the corresponding auxiliary signal for external processing or monitoring.
22. Stereo outputs can be used to drive an external power amplifier or sound system from the main program.
23. Power amp input connectors facilitate the insertion of external equalizers or other processing gear into the main program.
24. Stereo Sub Out level control and output jacks allow sub-mix cascading to a second mixer.
25. Mono output featuring a switchable low-pass filter with continuously-variable (screwdriver-adjustable) 80~120Hz cutoff frequency for subwoofer drive.
26. Foot Switch jacks accept optional FC5 foot switch to turn the effect 2 on or off, and tap in the tempo for the tempo delay effect "on the fly".
27. Phones jack with independent level control.
28. Panel-top Lamp socket.
29. Limiter indicators tell you when the internal limiter circuitry has been activated due to power amplifier overload.
30. Yamaha Speaker processing switch for smoother high frequencies and enhanced low-end output from Yamaha speakers.
31. Power amplifier output selector allows selection of 500, 300, or 100 watt output per channel.
32. Power Amp mode selector allows two-channel power amplifier to be quickly configured for Main + Main, Mono + Aux 1, Aux 1 or Aux 2, or Bridged operation.
33. Stand-by switch instantly mutes all mono inputs.
34. 9-band graphic equalizer with ON switch provides flexible sound-tailoring and feedback control.
35. Effect-section Aux 1 and Aux 2 sends adjust the amount of effect signal sent to the corresponding auxiliary buses.
36. Precise 12-segment stereo level meter.
37. Carrying handle doubles as an armrest for extra control comfort.
38. Stereo master fader with both PFL and AFL switches.
39. Linear Aux 1, Aux 2, and Mono Out master faders with AFL (after-fader listen) monitor switches.
40. Linear Effect return faders with PFL and ON switches.
41. High-quality SPEAKON speaker connectors for fast, reliable connection. Phone jack connectors are also provided.

Rear Panel



EMX SERIES SPECIFICATIONS

EMX62M

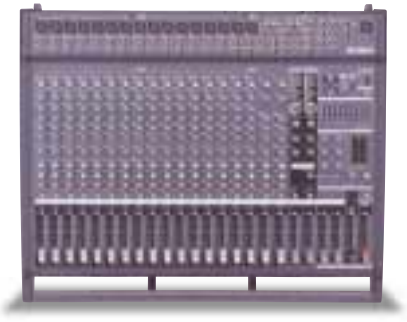
EMX66M

		EMX62M	EMX66M
Maximum Output Power @0.5% THD at 1kHz		200W/4ohms	300W+300W/4ohms
		135W/8ohms	205W+205W/8ohms
		—	600W/8ohms bridge
Input Connectors		CH1-4: XLR and TRS Phone CH5, 6: 2 × TRS Phone	CH1-4: XLR and TRS Phone CH5, 6: XLR and 2 × TRS Phones
Channel Inserts		—	—
EQ (MONO CH)	HIGH	10kHz shelving	10kHz shelving
	MID	—	2.5kHz peaking
	LOW	100Hz shelving	100Hz shelving
EQ (STEREO CH)	HIGH MID LOW	—	—
AUX SENDS		2 (1MONITOR,1EFFECT)	2 (1MONITOR,1EFFECT)
Phantom Power		+15V	+15V
Graphic Equalizer		7 band (125, 250, 500, 1k, 2k, 4k, 8k Hz)	7 band (125, 250, 500, 1k, 2k, 4k, 8k Hz)
Digital Effects		3 programs VOCAL REVERB LARGE HALL SMALL HALL	8 programs VOCAL ECHO 1 VOCAL ECHO 2 VOCAL REVERB 1 VOCAL REVERB 2 HALL 1 HALL 2 ROOM PLATE
Power Amp. Mode		Main	Main + Main
			Main + Monitor
			Main Bridge
			—
Power Select Switch		—	—
Meters		5 points (MAIN)	5 points (MAIN), 5 points (MONITOR)
Yahama Speaker Processing		Yes	Yes
Low Pass Filter		—	—
Stand-by switch		—	—
LAMP Connector		—	—
Foot Switch		Effect On/Off	Effect On/Off
Dimensions (W × H × D)		481.5 × 305 × 327.6 mm (18-15/16" × 12" × 12-7/8")	481.5 × 305 × 327.6 mm (18-15/16" × 12" × 12-7/8")
Weight		12 kg (26.5 lbs.)	15 kg (33.1 lbs.)
Power Requirements / Consumption	UL/CSA model	120V AC 60Hz 110W	120V AC 60Hz 250W
	Australian model	240V AC 50Hz 110W	240V AC 50Hz 300W
	European model	230V AC 50Hz 110W	230V AC 50Hz 300W
Option		RK-88 (Rack Mount Kit), FC-5 (Foot Switch)	RK-88 (Rack Mount Kit), FC-5 (Foot Switch)

EMX 68S

EMX 88S

EMX 5000-12



EMX 5000-20

EMX68S	EMX88S	EMX5000-12	EMX5000-20
400W+400W/4ohms	400W+400W/4ohms	500W+500W/4ohms	500W+500W/4ohms
270W+270W/8ohms	270W+270W/8ohms	325W+325W/8ohms	325W+325W/8ohms
800W/8ohms bridge	800W/8ohms bridge	1000W/8ohms bridge	1000W/8ohms bridge
CH1-4: XLR and TRS Phone CH5, 6: XLR and 2 × TRS Phones	CH1-6: XLR and TRS Phone CH7, 8: XLR and 2 × TRS Phones	CH1-8: XLR and TRS Phone CH9/10, 11/12: 2 × Phones and 2 × RCA pins	CH1-16: XLR and TRS Phone CH17/18, 19/20: 2 × Phones and 2 × RCA pins
—	—	8 (mono channels)	16 (mono channels)
10kHz shelving	10kHz shelving	10kHz shelving	10kHz shelving
2.5kHz peaking	2.5kHz peaking	250Hz-5kHz peaking	250Hz-5kHz peaking
100Hz shelving	100Hz shelving	100Hz shelving	100Hz shelving
10kHz shelving	10kHz shelving	10kHz shelving	10kHz shelving
2.5kHz peaking	2.5kHz peaking	2.5kHz peaking	2.5kHz peaking
100Hz shelving	100Hz shelving	100Hz shelving	100Hz shelving
2 (1MONITOR,1EFFECT)	2 (1MONITOR,1EFFECT)	4 (2 AUX (pre/Post), 2EFFECT)	4 (2 AUX (pre/Post), 2EFFECT)
+15V	+15V	+48V	+48V
7 band (125, 250, 500, 1k, 2k, 4k, 8k Hz)	7 band (125, 250, 500, 1k, 2k, 4k, 8k Hz)	9 band (63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz)	9 band (63, 125, 250, 500, 1k, 2k, 4k, 8k, 16k Hz)
SPX Digital Multi Effector (20bit AD/DA, 32bit Internal Processing)	SPX Digital Multi Effector (20bit AD/DA, 32bit Internal Processing)	DUAL SPX Digital Multi Effector (20bit AD/DA, 32bit Internal Processing)	
16 programs REVERB HALL / EARLY REF. REVERB ROOM / GATE REVERB REVERB PLATE / VOCAL DOUBLER REVERB VOCAL 1 / SYMPHONIC REVERB VOCAL 2 / FLANGE VOCAL ECHO 1 / DISTORTION VOCAL ECHO 2 / TAP DELAY DELAY 1 DELAY 2	16 programs REVERB HALL / EARLY REF. REVERB ROOM / GATE REVERB REVERB PLATE / VOCAL DOUBLER REVERB VOCAL 1 / SYMPHONIC REVERB VOCAL 2 / FLANGE VOCAL ECHO 1 / DISTORTION VOCAL ECHO 2 / TAP DELAY DELAY 1 DELAY 2	**Effect 1** (16 programs) REVERB HALL / REVERB ROOM / REVERB PLATE / REVERB VOCAL 1 REVERB VOCAL 2 / VOCAL ECHO 1 / VOCAL ECHO 2 / DELAY 1 DELAY 2 / MOD. DELAY / REVERSE GATE / PITCH CHANGE CHORUS / PHASER / RADIO VOICE / TREMOLO **Effect 2** (16 programs) REVERB HALL / REVERB ROOM / REVERB PLATE / REVERB VOCAL 1 REVERB VOCAL 2 / VOCAL ECHO 1 / VOCAL ECHO 2 / DELAY 1 DELAY 2 / EARLY REF. / GATE REVERB / VOCAL DOUBLER SYMPHONIC / FLANGE / DISTORTION / TAP DELAY	
ST L + ST R	ST L + ST R	ST L + ST R	ST L + ST R
Main (L+R) + Monitor	Main (L+R) + Monitor	Aux1 + Mono	Aux1 + Mono
Main (L+R) Bridge	Main (L+R) Bridge	Aux1 + Aux2	Aux1 + Aux2
—	—	MONO Bridge	MONO Bridge
—	—	500W / 300W / 100W	500W / 300W / 100W
2 × 5 points (MAIN), 5 points (MONITOR)	2 × 5 points (MAIN), 5 points (MONITOR)	2 × 13 points	2 × 13 points
Yes	Yes	Yes	Yes
—	—	Yes (MONO OUT)	Yes (MONO OUT)
Yes	Yes	Yes	Yes
—	—	Yes (XLR 3pins)	Yes (XLR 3pins)
Effect On/Off, TAP	Effect On/Off, TAP	Effect 2 On/Off, TAP	Effect 2 On/Off, TAP
481.5 × 305 × 327.6 mm (18-15/16" × 12" × 12-7/8")	481.5 × 305 × 327.6 mm (18-15/16" × 12" × 12-7/8")	478 × 158 × 538 mm (18-13/16" × 6-1/4" × 21-3/16")	682 × 158 × 538 mm (26-7/8" × 6-1/4" × 21-3/16")
15.5 kg (34.2 lbs.)	15.5 kg (34.2 lbs.)	15 kg (33.1 lbs.)	19 kg (41.9 lbs.)
120V AC 60Hz 300W	120V AC 60Hz 300W	120V AC 60Hz 400W	120V AC 60Hz 400W
240V AC 50Hz 350W	240V AC 50Hz 350W	240V AC 50Hz 550W	240V AC 50Hz 550W
230V AC 50Hz 350W	230V AC 50Hz 350W	230V AC 50Hz 550W	230V AC 50Hz 550W
RK-88 (Rack Mount Kit), FC-5 (Foot Switch)	RK-88 (Rack Mount Kit), FC-5 (Foot Switch)	RK-124 (Rack Mount Kit), FC-5 (Foot Switch)	FC-5 (Foot Switch)

Y A M A H A S P E A K E R S Y S T E M S

Club V Series Speaker System

SW500 Powered Sub Woofer

AS108 II Speaker System

YAMAHA Web Site

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